PROJECT DESCRIPTION **GENERAL** THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 (LIBERTY ROAD) AT MD 850 (NORTH MARKET STREET) IN FREDERICK COUNTY. A HALF SIGNAL WILL BE INSTALLED ON THE SOUTH SIDE OF MD 26 SUCH THAT WESTBOUND TRAFFIC WILL NOT STOP. VIDEO DETECTION IS PROPOSED FOR ALL PRESENCE DETECTION AND NON-INVASIVE MICROLOOP PROBES ARE ALSO PROPOSED FOR SETBACK DETECTION ALONG MD 26. ALL PROPOSED TRAFFIC SIGNAL HEADS WILL BE LED. MD 26 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION. INTERSECTION OPERATION THE INTERSECTION WILL OPERATE IN A NEMA TWO-PHASE, FULL-TRAFFIC ACTUATED MODE. THE WESTBOUND MD 26 LEFT TURN WILL FLASH RED UNTIL VEHICLES ACTUATE THE LEFT TURN SIGNALS. AT THAT TIME, THE SIGNALS WILL SHOW GREEN AND THE EASTBOUND MD 26 SIGNAL HEADS WILL TURN RED. CONTROLLER REQUIREMENTS INSTALL A NEMA SIZE 6 BASE MOUNTED TRAFFIC SIGNAL CONTROLLER WITH ALL OF THE NECESSARY EQUIPMENT, HARNESSES, AND VIDEO DETECTION CAMERA INTERFACE. PHONE DROP THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE INSTALLATION OF THE PHONE DROP. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER. WIRING DIAGRAM INTERCONNECT TO MD 355 **←←** = = =

A -MICROLOOP PROBE, 1000 FOOT LEAD-IN CABLE

CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER

-ELECTRICAL CABLE, 7 CONDUCTOR (NO. 14 AWG)

ELECTRICAL CABLE, 5 CONDUCTOR (NO. 14 AWG)

ELECTRICAL CABLE, 2 CONDUCTOR (NO. 12 AWG), TO

+- PROPOSED GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH

SF -ELECTRICAL CABLE - I CONDUCTOR, NO. 4 AWG, TYPE USE, 600V

P-NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

NML - PROPOSED NON-INVASIVE MICROLOOP PROBE SET

P-PROPOSED METERED SERVICE PEDESTAL

PPS PROPOSED UNDERGROUND POWER SERVICE TO BE MADE BY ALLEGHANY POWER

PPD - PROPOSED PHONE DROP

THE CONTACT PERSONS FOR DISTRICT *7/00TS ARE AS FOLLOWS:

Mr. John Concannon Assistant District Engineer - Traffic Phone: 301-624-8141

Ms. Andrea Abend District Utility Engineer Phone: 301-624-8115

Mr. Raymond Johnson Assistant District Engineer - Maintenance Phone: 301-624-8106

Mr. John Huchrowski Assistant District Engineer - Construction Phone: 301-624-8201

Office of Traffic & Safety
Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder Assistant Division Chief, Traffic Operations Phone: 410-787-7630 Mr. Edward Rodenhizer

Mr. Edward Rodenhizer Chief, SHA Traffic Signal Shop Phone: 410-787-7650 Mr. Eugene Balley Chief, SHA Sign Operation 410-787-7670

- D,E,F,P

- A,B,C,D,E,F,P,PPD,SF

->> INTERCONNECT TO MONOCACY BLVD

The Power Company Representative is: Alleghany Power 800 Cabin Hill Drive Greensburg, PA 15601 Phone: 1-800-255-3443 EQUIPMENT LIST 'A'

EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE QUANTITY DESCRIPTION

NONE

EQUIPMENT LIST 'B'

APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE	QUANTITY	DESCRIPTION					
800000	IEA	EIGHT-PHASE FULLY-ACTUATED CONTROLLER HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET WITH ALL NECESSARY HARNESSES					
800000	IEA	FOUR-CHANNEL LOOP DETECTOR AMPLIFIER					
800000	I EA	VIDEO DETECTION CAMERA INTERFACE (I-4 CAMERAS)					
800000	74 SF	FURNISH AND INSTALL SHEET ALUMINUM SIGNS - MAST ARM/GROUND MOUNT					
	-	2 EA - W3-3 (48"×48")					
		2 EA - D95-25 (24"×24")					
		I EA - R3-2L (30"×30")					
		I EA - RIO-12(2) MOD (60"×36")					
		I EA - RIO-12(2) (48"×36")					
807202	1 EA	METERED SERVICE PEDESTAL					
810605	2 EA	NON-INVASIVE MICROLOOP PROBE, 1000 FOOT LEAD-IN CABLE					
816001	I EA	VIDEO DETECTION CAMERA (ECONOLITE TERRA TYPE)					
816005	IEA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER					
818006	1 EA	20 FOOT BREAKAWAY PEDESTAL POLE					
818036	1 EA	STEEL POLE WITH 50 FOOT MAST ARM					
818041	I EA	STEEL POLE WITH 60 FOOT MAST ARM					
831010	2 EA	250 WATT HPS LAMP AND LUMINAIRE					
860284	15 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION					
866104	2 EA	20 FOOT LIGHTING ARM ON TRAFFIC SIGNAL STRUCTURE					

EQUIPMENT LIST 'C'

EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE	QUANTITY	DESCRIPTION						
•		, , , , , , , , , , , , , , , , , , ,						
120500	I LS	MAINTENANCE OF TRAFFIC						
203030	3 CY	TEST PIT EXCAVATION						
585624	40 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS						
801004	9 CY	CONCRETE FOR SIGNAL FOUNDATION						
801106	36 LF	WOOD SIGN SUPPORTS, 4 INCH X 6 INCH						
802501	165 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE						
805105	50 LF	2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED						
805115	45 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED						
805118	185 LF	4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED						
805125	60 LF	2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED						
805135	490 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED						
805140	370 LF	4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED						
110118	6 EA	ELECTRICAL HANDHOLE						
822500	ΙEΑ	AS BUILT FOR SHA ON CADD						
832017	400 LF	CABLE - I CONDUCTOR, NO 4 AWG, TYPE USE, 600V						
837001	5 EA	GROUND ROD - 3/4 INCH DIAMETER BY 10 FOOT LENGTH						
861107	50 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)						
861108	450 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)						
861116	260 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC						

EQUIPMENT LIST 'D'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT CODE QUANTITY DESCRIPTION

NONE - ALL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART

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PHASE 1	R	R	-	G	G	
PHASE I CHANGE	R	R	- 4-Y—	Υ	Υ	+
PHASE 2	G	G	FL/RA	FL/R	FL/R	ŀ
PHASE 2 CHANGE	Y	Y	FL/RA	fL/R	FL/R	
FLASHING OPERATION	FL/Y	FL/Y	FL/RA	FL/R	FL/R	+

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWING NO. TS-4734-GI OF

MD 26 (LIBERTY ROAD) AT

MD 850 (NORTH MARKET STREET)

GENERAL INFORMATION

DESIGNED BY MML COUNTY FREDERICK

DRAWN BY MML LOGMILE 10002600.77

CHECKED BY MML T.I.M.S. NO. K017

F.A.P. NO. NA TOD NO.

SHEET NO.

LENHART TRAFFIC CONSULTING

TRAFFIC ENGINEERING & TRANSPORTATION PLANNING

331 Redwood Grove Court Millersville, Maryland 21108 Tel: (410) 987–3888 Fax: (443) 782–2288 OTE:

---- A,B,C,D,J,P

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR.
SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL
BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

EAPD PERMIT NO.

PLOTTED: WEDNESDAY, DECEMBER 09, 2009 AT 12:14 AM